

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	541	"348".clas. and ((image adj sensor) and (pixel adj5 voltage))	USPAT	OR	OFF	2007/11/26 04:01
L3	46	"348".clas. and ((image adj sensor) and (pixel adj signal adj5 voltage))	USPAT	OR	OFF	2007/11/26 04:02
L4	3	"348".clas. and ((image adj sensor) and (pixel adj signal adj5 voltage) same resistance)	USPAT	OR	OFF	2007/11/26 04:06
L5	3	"348".clas. and ((image adj sensor) and (pixel adj signal adj5 voltage) same resistance)	US-PGPUB	OR	OFF	2007/11/26 04:06
L6	3	("6046444"   "6191408"   "6317154").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:06
L7	1	L6 and resistance	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:30
L8	3	L6 and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:08
L9	0	L6 and resistor\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:11
L10	0	"6191408".pn. and (weak)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:12
L11	0	"6191408".pn. and (inverse)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:12
L12	1	"6191408".pn. and (voltage)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:12
L13	1	"6191408".pn. and (logarithmic)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:33
L14	7	"729577".ap.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:31
L15	1	"6191408".pn. and (convert\$)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:33
L16	0	"6191408".pn. and (convert\$ same logarithmic)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:33

## EAST Search History

L17	1	"6191408".pn. and (convert\$)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:34
L18	1	"6191408".pn. and (log\$)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:34
L19	0	"6191408".pn. and (transistor same log\$)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:34
L20	1	"6191408".pn. and (transistor )	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:34
L21	1	"6191408".pn. and (transistor and log\$ )	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:34
L24	35	("20050206768"   "20050237407"   "20060007337"   "3814846"   "4322752"   "4330796"   "4339775"   "4785353"   "5321509"   "5396091"   "5436662"   "5463421"   "5500675"   "5754229"   "5764289"   "5955753"   "5966174"   "5973311"   "6002432"   "6008486"   "6084229"   "6118481"   "6122008"   "6141049"   "6211915"   "6249618"   "6320618"   "6335757"   "6365886"   "6429898"   "6452634"   "6529242"   "6590198"   "6614472"   "6687026").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/26 04:43
S1	587	348/308.ccls.	USPAT	OR	OFF	2007/04/25 08:31
S2	355	348/308.ccls. and (scan\$)	USPAT	OR	OFF	2007/04/23 11:34
S3	2	348/308.ccls. and (scan\$) and (pixel adj1 select\$ adj1 circuit)	USPAT	OR	OFF	2007/04/23 11:53
S4	0	"6515702".pn. and divide\$	USPAT	OR	OFF	2007/04/23 11:53
S5	0	"6515702".pn. and broke\$	USPAT	OR	OFF	2007/04/23 11:53
S6	1	"6515702".pn. and block\$	USPAT	OR	OFF	2007/04/23 11:53
S7	0	"6515702".pn. and separate\$	USPAT	OR	OFF	2007/11/21 15:18
S8	0	"6515702".pn. and convert	USPAT	OR	OFF	2007/04/23 11:56
S9	0	"6515702".pn. and convert\$	USPAT	OR	OFF	2007/04/23 11:56
S10	1	"6515702".pn. and (bias adj voltage)	USPAT	OR	OFF	2007/04/23 11:56

## EAST Search History

S11	0	"6515702".pn. and (voltage adj value)	USPAT	OR	OFF	2007/04/23 11:56
S12	1	"6515702".pn. and (voltage)	USPAT	OR	OFF	2007/04/23 11:56
S13	591	348/308.ccls.	USPAT	OR	OFF	2007/04/25 08:35
S14	128	348/308.ccls. and (scan\$4 adj3 (means or circuit))	USPAT	OR	OFF	2007/04/25 08:37
S15	126	348/308.ccls. and (scan\$4 adj3 (means or circuit)) and first	USPAT	OR	OFF	2007/04/25 08:37
S16	16	348/308.ccls. and (first adj3 (scan\$4 adj3 (means or circuit)) )	USPAT	OR	OFF	2007/04/25 08:38
S17	16	348/308.ccls. and (first adj3 (scan\$4 adj3 (means or circuit)))	USPAT	OR	OFF	2007/04/25 15:57
S18	1	"6665010".pn.	USPAT	OR	OFF	2007/04/25 16:03
S19	1	"6665010".pn. and group	USPAT	OR	OFF	2007/04/25 16:08
S20	54	(pixel\$1 adj line) adj3 (divid\$3)	USPAT	OR	OFF	2007/04/25 17:18
S21	1	(pixel\$1 adj line) adj3 (broke\$3)	USPAT	OR	OFF	2007/04/25 16:12
S22	29	(pixel\$1 adj line) adj3 (group\$3)	USPAT	OR	OFF	2007/04/25 16:12
S23	1	"5999211".pn. and scan	USPAT	OR	OFF	2007/04/25 16:22
S24	1	"5999211".pn. and (line adj array adj sensor)	USPAT	OR	OFF	2007/04/25 16:22
S25	2501	250/208.1.ccls.	USPAT	OR	OFF	2007/04/25 17:19
S26	218	250/208.3.ccls.	USPAT	OR	OFF	2007/04/25 17:19
S27	2711	S25 or S26	USPAT	OR	OFF	2007/04/25 17:19
S28	51	S27 and (pixel adj line)	USPAT	OR	OFF	2007/04/25 17:19
S29	3	S27 and (pixel adj line) same divide\$2	USPAT	OR	OFF	2007/04/25 17:19
S30	3	S27 and ((pixel adj line) same divide\$2)	USPAT	OR	OFF	2007/04/25 17:19
S31	1	"5999211".pn. and group	USPAT	OR	OFF	2007/04/25 17:24
S32	1	"5999211".pn. and divide\$	USPAT	OR	OFF	2007/04/25 17:49
S33	1	"5933189".pn.	USPAT	OR	OFF	2007/04/25 17:49
S34	1	"5933189".pn.	USPAT	OR	OFF	2007/04/26 10:24
S35	1	"6975355".pn.	USPAT	OR	OFF	2007/04/26 10:24
S36	1	"7151566".pn.	USPAT	OR	OFF	2007/04/26 10:28
S37	334	348/298	USPAT	OR	OFF	2007/04/26 10:33
S38	238	S37 and (matrix or array)	USPAT	OR	OFF	2007/04/26 10:33
S39	6	S38 and (first adj scan\$4)	USPAT	OR	OFF	2007/04/26 10:35
S40	4	S38 and (second adj scan\$4)	USPAT	OR	OFF	2007/04/26 10:35
S41	6	S38 and (pixel adj line)	USPAT	OR	OFF	2007/04/26 10:36

## EAST Search History

S42	22	S38 and (pixel adj (row or line))	USPAT	OR	OFF	2007/04/26 10:37
S43	176	S37 and 348/294	USPAT	OR	OFF	2007/04/26 10:37
S44	1486	S37 or 348/294	USPAT	OR	OFF	2007/04/26 10:37
S45	1096	S44 and (matrix or array)	USPAT	OR	OFF	2007/04/26 10:37
S46	135	S45 and (pixel adj (row or line))	USPAT	OR	OFF	2007/04/26 10:37
S47	135	S45 and (pixel adj1 (row or line))	USPAT	OR	OFF	2007/04/26 10:38
S48	1053	S45 and (pixel adj\$1 (row or line))	USPAT	OR	OFF	2007/04/26 10:38
S49	276	S45 and (pixel adj2 (row or line))	USPAT	OR	OFF	2007/04/26 10:38
S50	4	S45 and (pixel adj2 (row or line)) adj (group or block)	USPAT	OR	OFF	2007/04/26 10:42
S51	959	348/302	USPAT	OR	OFF	2007/04/26 10:42
S52	822	S51 and (matrix or array)	USPAT	OR	OFF	2007/04/26 10:42
S53	136	S52 and (pixel adj (line or row))	USPAT	OR	OFF	2007/04/26 10:43
S54	7	S52 and scan with (pixel adj (line or row))	USPAT	OR	OFF	2007/04/26 10:43
S55	7	S52 and (scan with (pixel adj (line or row)))	USPAT	OR	OFF	2007/04/26 10:43
S56	28	S52 and (scan\$4 with (pixel adj (line or row)))	USPAT	OR	OFF	2007/04/26 16:38
S57	0	sukeyuki adj shinotsuka.in.	USPAT	OR	OFF	2007/04/26 11:36
S58	0	(sukeyuki adj shinotsuka).in.	USPAT	OR	OFF	2007/04/26 11:36
S59	41	shinotsuka.in.	USPAT	OR	OFF	2007/04/26 11:40
S60	94	shinotsuka.in.	US-PGPUB; USPAT	OR	OFF	2007/04/26 12:07
S61	0	"729577".pn.	US-PGPUB; USPAT	OR	OFF	2007/04/26 12:07
S62	6	"729577".ap.	US-PGPUB; USPAT	OR	OFF	2007/04/26 12:07
S63	490	348/294.ccls.	USPAT	OR	OFF	2007/04/26 16:38
S64	156	S63 and (matrix or aaray)	USPAT	OR	OFF	2007/04/26 16:39
S65	108	S63 and (matrix or aaray) and scan\$4	USPAT	OR	OFF	2007/04/26 16:39
S66	76	S63 and (matrix or aaray) and (scan\$4 with (pixel (line or row)))	USPAT	OR	OFF	2007/04/26 16:40
S67	0	"5998778".pn. and convert\$	USPAT	OR	OFF	2007/04/26 17:00
S68	0	"5998778".pn. and convert	USPAT	OR	OFF	2007/04/26 17:00
S69	1	"5998778".pn. and voltage	USPAT	OR	OFF	2007/04/26 17:00
S70	0	"5998778".pn. and bias	USPAT	OR	OFF	2007/04/26 17:01
S71	0	"5998778".pn. and resistance	USPAT	OR	OFF	2007/04/26 17:01
S72	1	"5998778".pn. and resistor	USPAT	OR	OFF	2007/04/26 17:01

## EAST Search History

S73	1	"5998778".pn. and (image adj sensor)	USPAT	OR	OFF	2007/04/26 17:14
S74	1	"5998778".pn. and (pixel)	USPAT	OR	OFF	2007/04/26 17:18
S75	1	"5998778".pn. and (pixels)	USPAT	OR	OFF	2007/04/26 17:18
S76	1	"5998778".pn. and (image adj sensor)	USPAT	OR	OFF	2007/04/27 10:35
S77	1	"5998778".pn. and (one adj row)	USPAT	OR	OFF	2007/04/27 14:26
S78	1	"5998778".pn. and (pixels)	USPAT	OR	OFF	2007/04/27 11:13
S79	2	"729577".ap.	US-PGPUB	OR	OFF	2007/04/27 11:04
S80	1	"5998778".pn. and (state)	USPAT	OR	OFF	2007/04/27 11:13
S81	1	"5998778".pn. and (mos)	USPAT	OR	OFF	2007/04/27 11:25
S82	0	"5998778".pn. and (scanning adj means)	USPAT	OR	OFF	2007/04/27 11:25
S83	1	"5998778".pn. and (scan\$4)	USPAT	OR	OFF	2007/04/27 11:25
S84	1	"5999211".pn. and (block)	USPAT	OR	OFF	2007/04/27 14:13
S85	1	"5999211".pn. and ("fig." "7")	USPAT	OR	OFF	2007/04/27 14:13
S86	1	"5998778".pn. and (row)	USPAT	OR	OFF	2007/04/27 14:26
S87	1	"5998778".pn. and (row adj selection)	USPAT	OR	OFF	2007/04/27 14:53
S88	0	S86 not S87	USPAT	OR	OFF	2007/04/27 14:26
S89	1	"5933189".pn.	USPAT	OR	OFF	2007/04/27 14:53
S90	1	"5933189".pn. and resistance	USPAT	OR	OFF	2007/04/30 08:07
S91	2	"729577".ap.	US-PGPUB	OR	OFF	2007/04/30 10:18
S92	1	"7176435".pn. and output\$4	USPAT	OR	OFF	2007/04/30 10:19
S93	17	"6665010"	USPAT	OR	OFF	2007/04/30 10:41
S94	1	"6665010".pn.	USPAT	OR	OFF	2007/04/30 10:42
S95	1373	"348".clas. and (first adj2 scan\$4) and (second adj2 scan\$4) and (block\$1 or line\$1 or pixel\$1)	USPAT	OR	OFF	2007/11/18 22:31
S96	131	"348".clas. and (first adj2 scan\$4) and (second adj2 scan\$4) and ((block\$1 or line\$1 or pixel\$1) adj2 basis)	USPAT	OR	OFF	2007/11/18 22:32
S97	18	"348".clas. and (first adj2 scan\$4) and (second adj2 scan\$4) and ((block\$1 or line\$1 or pixel\$1) adj2 basis) and (pixel adj2 select\$4)	USPAT	OR	OFF	2007/11/18 22:35

## EAST Search History

S98	17	"348".clas. and (first adj2 scan\$4) and (second adj2 scan\$4) and ((block\$1 or line\$1 or pixel\$1) adj2 basis) and (pixel adj2 select\$4) and (scan\$4 same select\$4)	USPAT	OR	OFF	2007/11/19 17:58
S99	3	"729577".ap.	US-PGPUB	OR	OFF	2007/11/19 17:58
S100	2	"729577".ap. and (block)	US-PGPUB	OR	OFF	2007/11/19 18:00
S101	105	shinotsuka.in.	US-PGPUB; USPAT	OR	OFF	2007/11/19 18:01
S102	17	S101 and (honda.as.)	US-PGPUB; USPAT	OR	OFF	2007/11/19 18:01
S103	2	S102 and (basis.clm.)	US-PGPUB; USPAT	OR	OFF	2007/11/19 18:04
S104	2	S102 and (scanning.clm.)	US-PGPUB; USPAT	OR	OFF	2007/11/19 18:04
S105	9	"348".clas. and ((pixel adj line) adj5 divid\$4)	USPAT	OR	OFF	2007/11/21 15:20
S106	17	"348".clas. and ((pixel adj (line or row or column)) adj5 (divid\$4 or split\$3))	USPAT	OR	OFF	2007/11/21 15:21
S107	116	"348".clas. and ((pixel adj (line or row or column)) adj5 (block\$1 or group\$1))	USPAT	OR	OFF	2007/11/21 15:22
S108	45	"348".clas. and ((pixel adj (line or row or column)) adj3 (block\$1 or group\$1))	USPAT	OR	OFF	2007/11/21 15:28
S109	0	"348""."308".ccls.	USPAT	OR	OFF	2007/11/21 15:28
S110	650	"348/308".ccls.	USPAT	OR	OFF	2007/11/21 15:28
S111	650	348/308.ccls.	USPAT	OR	OFF	2007/11/21 15:28
S112	1134	348/308.ccls.	US-PGPUB; USPAT	OR	OFF	2007/11/21 15:28
S113	89	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1))	USPAT	OR	OFF	2007/11/23 16:51
S114	85	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) and (line\$1 or row\$1)	USPAT	OR	OFF	2007/11/23 16:55
S115	47	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) same (line\$1 or row\$1)	USPAT	OR	OFF	2007/11/23 16:56

## EAST Search History

S11 6	32	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) same (line\$1 or row\$1) and scan\$4	USPAT	OR	OFF	2007/11/23 16:57
S11 7	47	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) same (line\$1 or row\$1) same scan\$4	USPAT	OR	OFF	2007/11/23 16:57
S11 8	11	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) same (line\$1 or row\$1) same scan\$4	USPAT	OR	OFF	2007/11/23 16:58
S11 9	16	"348".clas. and (super\$pixel\$1 or (super adj pixel\$1)) same (line\$1 or row\$1) same scan\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:24
S12 0	0	"348".clas. and (micro\$lens\$3) same ((negative adj tone) same photoresist) same transparen\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:25
S12 1	0	"348".clas. and (micro\$lens\$3) and ((negative adj tone) same photoresist) same transparen\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:25
S12 2	3	(micro\$lens\$3) and ((negative adj tone) same photoresist) same transparen\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:27
S12 3	527	(micro\$lens\$3) and (photoresist) same transparen\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:27
S12 4	118	(image adj sensor) and (micro\$lens\$3) and (photoresist) same transparen\$4	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:27
S12 5	95	(image adj sensor) and (micro\$lens\$3) and (layer same (photoresist) same transparen\$4)	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:28
S12 6	67	(image adj sensor) and (micro\$lens\$3) and (layer same micro\$lens\$4 same (photoresist) same transparen\$4)	US-PGPUB; USPAT	OR	OFF	2007/11/23 18:30
S12 7	8	(image adj sensor) and (micro\$lens\$3) and (layer same micro\$lens\$4 same (negative adj4 photoresist) same transparen\$4)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:55
S12 8	104	(micro\$lens\$3) same (radius) same (micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:56
S12 9	14	(micro\$lens\$3) same (radius) same ("0.5" same micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:56
S13 0	57	(micro\$lens\$3) same (radius adj2 curv\$5) same (micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:57
S13 1	57	(micro\$lens\$3) same (radius adj2 curvature) same (micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:57

## EAST Search History

S13 2	57	(micro\$lens\$3) same (radius adj curvature) same (micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 15:57
S13 3	9	(image adj sensor) and (micro\$lens\$3) same (radius adj curvature) same (micron\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 16:01
S13 4	0	"6784014".pn. and micron\$1	US-PGPUB; USPAT	OR	OFF	2007/11/24 16:09
S13 5	0	(micro\$lens\$4) same (angrstrom\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 16:09
S13 6	40	(micro\$lens\$4) same (angstrom\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/24 16:09
S13 7	1	"6204879".pn.	USPAT	OR	OFF	2007/11/25 15:18
S13 8	1	"6204879".pn. and line	USPAT	OR	OFF	2007/11/25 15:18
S13 9	1	"6665010".pn. and line	USPAT	OR	OFF	2007/11/25 15:19
S14 0	1	"6046680".pn. and line	USPAT	OR	OFF	2007/11/25 15:19
S14 1	0	"6046680".pn. and line and scan\$	USPAT	OR	OFF	2007/11/25 15:19
S14 2	1	"6046680".pn. and line	USPAT	OR	OFF	2007/11/25 15:19
S14 3	1	"6570615".pn. and line	USPAT	OR	OFF	2007/11/25 15:22
S14 4	1	"6570615".pn. and line and group	USPAT	OR	OFF	2007/11/25 15:27
S14 5	0	"6046680".pn. and group and line	USPAT	OR	OFF	2007/11/25 15:27
S14 6	0	"6046680".pn. and pixel and line	USPAT	OR	OFF	2007/11/25 15:27
S14 7	1	"6046680".pn. and line	USPAT	OR	OFF	2007/11/25 15:28
S14 8	6	348/308.ccls. and super\$pixel	USPAT	OR	OFF	2007/11/25 15:33
S14 9	78	"348".clas. and (group adj3 pixels adj3 (line or row))	USPAT	OR	OFF	2007/11/25 15:37
S15 0	59	"348".clas. and (group adj3 pixels adj3 (line or row)) and scan\$4	USPAT	OR	OFF	2007/11/25 15:37
S15 1	73	"348".clas. and (group adj3 pixels adj3 (line or row)) and (scan\$4 or read\$4)	USPAT	OR	OFF	2007/11/25 15:37
S15 2	1	"7092021".pn. and group	USPAT	OR	OFF	2007/11/25 15:53



## EAST Search History

S15 3	1	"7106915".pn. and group\$1	USPAT	OR	OFF	2007/11/25 16:24
S15 4	1	"7106915".pn. and (group adj2 pixels)	USPAT	OR	OFF	2007/11/25 16:28
S15 5	1	"7106915".pn. and voltage	USPAT	OR	OFF	2007/11/25 16:30
S15 6	1	"7106915".pn. and group\$1	USPAT	OR	OFF	2007/11/25 16:30
S15 8	1	"7106915".pn. and (group\$1 or pixel\$1)	USPAT	OR	OFF	2007/11/25 21:02
S15 9	1	"7106915".pn. and blanking	USPAT	OR	OFF	2007/11/25 21:04
S16 0	1	"7106915".pn. and voltage and resist\$	USPAT	OR	OFF	2007/11/25 21:14
S16 1	4	"729577".ap.	USPAT	OR	OFF	2007/11/25 21:14
S16 2	3	"729577".ap.	US-PGPUB	OR	OFF	2007/11/25 21:39
S16 3	0	convert adj2 (pixel adj3 signal\$1) adj3 voltage and (reference adj resistance) and (bias adj voltage)	USPAT	OR	OFF	2007/11/25 21:40
S16 4	18	convert\$4 adj2 (pixel adj3 signal\$1) adj3 voltage	USPAT	OR	OFF	2007/11/25 21:40
S16 5	0	convert\$4 adj2 (pixel adj3 signal\$1) adj3 voltage and (reference adj resistance) and (bias adj voltage)	USPAT	OR	OFF	2007/11/25 21:40
S16 6	0	convert\$4 adj2 (pixel adj3 signal\$1) adj3 voltage and (reference adj resistance)	USPAT	OR	OFF	2007/11/25 21:40
S16 7	9	convert\$4 adj2 (pixel adj3 signal\$1) adj3 voltage and (resistance)	USPAT	OR	OFF	2007/11/25 21:46
S16 8	11	convert\$4 adj2 (pixel adj3 signal\$1) adj3 voltage and (resist\$)	USPAT	OR	OFF	2007/11/25 22:06
S16 9	1	"6331844".pn. and voltage and resist\$	USPAT	OR	OFF	2007/11/26 02:57
S17 0	1	"7106915".pn. and convert\$	USPAT	OR	OFF	2007/11/25 22:41
S17 1	1	"7106915".pn. and voltage	USPAT	OR	OFF	2007/11/25 22:41